DOCUMENT RESUME

ED 092 029 HE 005 590

TITLE Summary Report 1973 Doctorate Recipients from United States Universities.
INSTITUTION National Academy of Sciences - National Research Council, Washington, D.C.
PUB DATE May 74
NOTE 20p.

EDRS PRICE MF-$0.75 HC-$1.50 PLUS POSTAGE
DESCRIPTORS *Doctoral Degrees; *Doctoral Programs; Educational Research; Enrollment Trends; *Graduate Study; Graduate Surveys; *Higher Education; Minority Groups; *Surveys

ABSTRACT

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during fiscal year 1973. The survey is conducted annually by the Commission on Human Resources (CHR) of the National Research Council. Questionnaire forms are filled out by the graduates as they complete all requirements for their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1972 to June 30, 1973, but they do not include professional degrees such as the MD, DDS, and DVM. The statistical tables include data on: doctoral growth rate, racial or ethnic group, number of doctoral recipients by sex and subfields, statistical profile of women doctorate recipients, percentage of doctorate recipients by sources of support, and number of doctorate recipients by sex, state of doctoral institution, and summary field. (Author/PG)

ED 092029

Summary Report 1973 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

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U.S. DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

ED 092029

Summary Report 1973 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

Prepared in the
Commission on Human Resources
National Research Council

National Academy of Sciences
Washington, D.C.
May 1974

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during fiscal year 1973. The Survey is conducted annually by the Commission on Human Resources (CHR) of the National Research Council. Questionnaire forms, distributed with the cooperation of the Graduate Deans, are filled out by the graduates as they complete all requirements for their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1972 to June 30, 1973, but they do not include professional degrees such as the MD, DDS, and DVM.

This is the seventh in a series of yearly summaries of data from the Survey of Earned Doctorates, a series that began in 1967. The CHR publishes data gathered during a given fiscal year in the following fiscal year. Trend data from an earlier period can be found in the book, *Doctorate Recipients from United States Universities 1958–1966* (NAS publication 1489).

The distribution of the Survey of Earned Doctorates questionnaire, the maintenance of the resulting data file, and the publication of this report are supported jointly by the National Science Foundation, the United States Office of Education, the National Institutes of Health, and the National Endowment for the Humanities. The CHR wishes to express its appreciation to these agencies for their assistance.

The CHR is concerned with those activities of the National Research Council that contribute to the more effective development and utilization of the nation's human resources. Its programs seek to strengthen higher education and develop better understanding of the educational process. It is hoped that prompt reporting of present data to educational, governmental, and professional agencies will facilitate planning in higher education. Suggestions for improvement of the content or format of the report and questions or comments will be welcomed. Such communications may be directed to the Commission on Human Resources, National Research Council, 2101 Constitution Avenue, Washington, D.C., 20418.

DOCTORAL GROWTH RATE CONTINUES TO DECREASE

The number of doctorate recipients in 1973 was 33,727, a 2.2% increase over the number receiving the degree in 1972. This is the lowest rate of increase since 1960 – the beginning of a decade of rapid growth in doctoral education.

What is particularly notable is the difference in the rates for men and women. An additional 800 women received the doctorate in FY 1973, a 15.1% increase over FY 1972. The rate for men was -0.3% with 74 fewer men receiving the degree in FY 1973. The table below shows the rates of change for men and women in the various broadly categorized doctoral fields. To ascertain changes at the subfield level, Table 1 of this report should be compared with last year's report.

	Percent Change 1972 to 1973		
Doctoral Field	Men	Women	Total Doctorates
Physical Sciences	- 5.4	+ 3.0	- 4.9
Mathematics	- 6.9	+ 24.0	- 4.6
Physics & Astronomy	- 3.5	+ 21.7	- 2.8
Chemistry	- 7.7	- 11.4	- 8.1
Earth Sciences	- 0.7	+ 4.6	- 0.5
Engineering	- 4.7	+114.3	- 3.9
Life Sciences	- 1.3	+ 19.2	+ 1.7
Biological Science	- 1.3	+ 17.9	+ 2.2
Agricultural Science	+ 1.1	+ 12.1	+ 1.5
Medical Science	- 9.0	+ 33.3	- 3.2
Social Sciences	+ 2.8	+ 18.5	+ 7.3
Psychology	+ 4.3	+ 18.3	+ 8.0
Arts & Humanities	+11.3	+ 21.7	+14.1
Professional Fields	- 4.6	+ 8.7	- 3.0
Education	+ 0.5	+ 8.5	+ 2.4
TOTAL	- 0.3	+ 15.1	+ 2.2

RACIAL OR ETHNIC GROUP

Two years ago, the Survey of Earned Doctorates questionnaire was revised and for the first time included the item "racial or ethnic group." (A copy of the questionnaire is printed on pp. 16–18. Please refer to it for the question's phrasing and format.) The graduates of 1973 were the first to respond to the revised form.

Because the previous version of the questionnaire was still in circulation, some (19%) of the FY 1973 doctorate recipients did not receive the new form. The data presented here are therefore based on questionnaires returned by 27,227 graduates--81% of the 33,727 persons who received the doctorate in FY 1973. A preliminary comparison of those who received the form and those who did not indicates there is no appreciable institutional or geographical bias in the data.

The table below shows the number of doctorate recipients in each category and the field in which their degree was received:

		FIELD OF DOCTORATE								
Racial/Ethnic Group		Phys. Scncs	Engr.	Life Scncs	Social Scncs	A & H	Prof. Fields	Educ.	Total	
White/Caucasian	No.	3396	1902	3185	4069	3894	994	4811	22251	
	H%	15.3	8.5	14.3	18.3	17.5	4.4	21.6		
	V%	78.3	69.5	78.2	84.8	87.3	86.6	84.9	81.7	
Black/Negro/Afro-Amer.[a]	No.	45	27	96	87	74	24	382	735	
	H%	6.1	3.7	13.1	11.8	10.1	3.1	52.0		
	V%	1.0	1.0	2.4	1.8	1.7	2.1	6.7	2.7	
American Indian[b]	No.	10	7	17	21	18	1	34	108	
	H%	9.3	6.5	15.7	19.4	16.7	.9	31.5		
	V%	.2	.3	.4	.4	.4	.1	.6	.4	
Span.-Amer./Mex.-Amer./ Chicano[c]	No.	35	14	49	26	49	4	38	215	
	H%	16.3	6.5	22.8	12.1	22.8	1.9	17.7		
	V%	.8	.5	1.2	.5	1.1	.4	.7	.8	
Puerto Rican-American[d]	No.	3	3	7	8	6		10	37	2884
	H%	8.1	8.1	18.9	21.6	16.2		27.0		
	V%	.1	.1	.2	.2	.1		.2	.1	
Oriental[e]	No.	480	476	372	190	84	36	93	1731	
	H%	27.7	27.5	21.5	11.0	4.9	2.0	5.4		
	V%	11.1	17.4	9.1	4.0	1.9	3.0	1.6	6.4	
Other	No.	10	17	7	8	11	1	4	58	
	H%	17.2	29.3	12.1	13.8	19.0	1.7	6.9		
	V%	.2	.6	.2	.2	.2	.1	.1	.2	
No Useable Response	No.	359	292	340	387	325	91	298	2092	
	H%	17.2	14.0	16.3	18.5	15.5	4.2	14.2		
	V%	8.3	10.7	8.3	8.1	7.3	7.8	5.3	7.7	
Total	No.	4338	2738	4073	4796	4461	1151	5670	27227	
	H%	15.9	10.1	15.0	17.6	16.4	4.1	20.8		
	V%	100.0	100.1	100.0	100.0	100.0	100.1	100.1	100.0	

NOTE: H% indicates the horizontal percentages which sum to 100% across the doctoral fields for each racial/ethnic group. The vertical percentages (V%) sum to 100% for each doctoral field.

[a] Includes 7 persons who checked this category and one other.
[b] Twenty persons checked only this category; 88 checked American Indian and White.
[c] Includes 45 persons who checked this category and White.
[d] Eight persons in this category also checked White.
[e] Twelve persons checked this category and White.

There were 184 persons who checked more than one category. Rather than record these persons in "other" or "no useable response" (note especially the effect this would have on the American Indian group), we have added the multiple responses to one group, giving a

single category to each respondent. Further analysis may warrant another procedure.

There were 2,092 persons who did not check one of the specific categories. Some of these persons checked the "other" category and reported their nationality or religion; these responses were not used. A few simply did not respond.

Ten percent of the doctorate recipients reported themselves as being in a minority category. Because numbers in some of the groups are small, and because complete analysis of these data was not possible before printing this summary report, the following profile data are presented on the 2,884 doctorate recipients as a single group.

PROFILE DATA on FY 1973 Doctorate Recipients
Reporting a Minority Racial or Ethnic Group Identification

	U.S. Citizens		Non-U.S. Citizens		TOTAL*	
	No.	%	No.	%	No.	%
TOTAL	1134	100.0	1726	100.0	2884	100.0
Black/Negro/Afro-American	581	51.2	144	8.3	735	25.5
American Indian	107	9.4	1	-	108	3.7
Span.-Amer./Mex.-Amer./Chicano	135	11.9	79	4.6	215	7.5
Puerto Rican-American	36	3.2	-	-	37	1.3
Oriental	251	22.1	1468	85.1	1731	60.0
Other	24	2.1	34	2.0	58	2.0
Sex						
Male	868	76.5	1556	90.2	2443	84.7
Female	266	23.5	170	9.8	441	15.3
Doctoral Field						
Physical Sciences	118	10.4	461	26.7	583	20.2
Engineering	84	7.4	456	26.4	544	18.9
Life Sciences	160	14.1	385	22.3	548	19.0
Social Sciences	158	13.9	179	10.4	340	11.8
Arts & Humanities	143	12.6	95	5.5	242	8.4
Education	443	39.1	113	6.5	561	19.5
Professions	28	2.5	37	2.1	66	2.3
Median Age at Doctorate	35.0 years		31.7 years		32.5 years	
Median Time Lapse from Baccalaureate to Doctorate						
Total Time	11.3 years		8.4 years		9.2 years	
Registered Time	6.2 years		5.6 years		5.8 years	
Postgraduation Plans						
Study appointment	158	13.9	576	33.4	734	25.4
Employment	933	82.3	1083	62.7	2030	70.4
R & D	151	16.2	409	37.8	564	27.8
Teaching	453	48.5	422	39.0	880	43.3
Administration	153	16.4	23	2.1	176	8.7
Professional services	54	5.8	60	5.5	115	5.7
Other	31	3.3	48	4.4	80	3.9
Unknown	91	9.8	121	11.2	215	10.6
No report of plans	43	3.8	67	3.9	120	4.2
Postgraduation Location						
U.S.	860	75.8	723	41.9	1592	55.2
Foreign country	19	1.7	458	26.5	480	16.6
Unknown	255	22.5	545	31.6	812	28.2

*The total includes 24 persons who did not report their citizenship at time of doctorate.

EXPLANATION OF FOUR BASIC TABLES

TABLE 1	Number of Doctorate Recipients by Sex and Subfields, FY 1973
TABLE 2	Statistical Profile of Women Doctorate Recipients and All Doctorate Recipients by Field of Doctorate, FY 1973 (two tables)
TABLE 3	Percentage of FY 1973 Doctorate Recipients by Sources of Support in Graduate School, by Sex and Summary Fields
TABLE 4	Number of FY 1973 Doctorate Recipients by Sex, State of Doctoral Institution and Summary Field

Table titles and headings are generally self-explanatory, but a few terms need special definition or explanation.

Table 2:

There are two 2-page tables; one presents data about all the doctorate recipients of FY 1973 and the other contains data about women only. The fields of the doctorate which head Table 2 are the same as those in the 1972 report but differ from those in the *Summary Reports* of the previous five years. The fields are grouped into broader categories and only the largest fields are shown in detail. Refer to page 19 for the codes included in each broad field and the Specialties List on page 18 for the codes and names of each subfield.

"Median Age at Doctorate"—One-half received the doctorate at this age or younger.

"Percent with Master's"—This indicates the percentage of doctorate recipients in a field who received a master's degree in any field before taking the doctorate.

"Median Time Lapse"—*Total Time* refers to total calendar time elapsed between year of baccalaureate and year of doctorate; *Registered Time* refers to the total time registered in a university between baccalaureate and doctorate.

Postgraduation plans of the doctorate recipients are grouped as: *Post doctoral study* (fellowship, research associateship, traineeship, other), *Employment* (educational institution, industry, etc.), or *Unknown*. The sum of the columns of percentages totals 100% with allowance for rounding. For example, 5.7% of all the engineers accepted postdoctoral fellowships, 7.1% received research associateships, 0.3% held traineeships, and 1.0% had some other form of postdoctoral study support; 81.5% were employed; and 4.4% did not indicate their postdoctoral plans. The percentages listed by type of employer (educational institution, industry, etc.) total to the 81.5% employed.

Percentages showing the distribution of doctorate recipients by *work activity* and by *region of employment* are based only on those who were going into employment. They exclude those planning postdoctoral study as described in the categories above.

Table 3:
Data in Table 3 describe sources of financial support during graduate school. The question was answered by 31,828 (94%) of the FY 1973 doctorate recipients. The data in the table should be interpreted as follows: 544 doctorate recipients in the physical sciences reported financial support from NSF fellowships during graduate school. This number is 10.9% of all the physical science doctorates who answered the question, and it is 32.3% of those in all fields that reported NSF fellowship support. Since students may indicate multiple sources of support, the vertical percentages sum to more than 100%.

Table 4:
Table 4 shows the *number of persons* receiving a doctorate from universities in each of the 50 states, District of Columbia and Puerto Rico.

TABLE 1
NUMBER OF DOCTORATE RECIPIENTS BY SUBFIELDS, FISCAL YEAR 1973

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
TOTAL ALL FIELDS	27645	6082	33727
PHYSICAL SCIENCES	4862	376	5238
MATHEMATICS	1103	119	1222
ALGEBRA	116	25	141
ANALYSIS	226	18	244
GEOMETRY	28	4	32
LOGIC	30	3	33
NUMBER THEORY	28	3	31
PROBABILITY,MATH STATISTICS	138	18	156
TOPOLOGY	99	12	111
COMPUTING THEORY AND PRACTICE	205	16	221
OPERATIONS RESEARCH	3		3
APPLIED MATHEMATICS	112	7	119
MATHEMATICS,GENERAL	84	6	90
MATHEMATICS,OTHER	34	7	41
PHYSICS AND ASTRONOMY	1534	56	1590
ASTRONOMY	60	4	64
ASTROPHYSICS	65	2	67
ATOMIC AND MOLECULAR PHYSICS	119	3	122
ELECTROMAGNETISM	13		13
MECHANICS	5	1	6
ACOUSTICS	14	1	15
FLUIDS	28		28
PLASMA PHYSICS	70	4	74
OPTICS	33		33
THERMAL PHYSICS	13	3	16
ELEMENTARY PARTICLES	218	4	222
NUCLEAR STRUCTURE	175	7	182
SOLID STATE	388	12	400
PHYSICS,GENERAL	199	8	207
PHYSICS,OTHER	134	7	141
CHEMISTRY	1670	179	1849
ANALYTICAL	120	8	128
INORGANIC	228	33	261
ORGANIC	597	46	643
NUCLEAR	23	1	24
PHYSICAL	403	53	456
THEORETICAL	48	5	53
AGRICULTURAL AND FOOD	8	1	9
PHARMACEUTICAL	44	6	50
POLYMER CHEMISTRY	14		14
CHEMISTRY,GENERAL	121	16	137
CHEMISTRY,OTHER	64	10	74
EARTH SCIENCES	555	22	577
MINERALOGY,PETROLOGY	45	2	47
GEOCHEMISTRY	42		42
STRATIGR,SEDIMENTATION	50	4	54
PALEONTOLOGY	38	6	44
STRUCTURAL GEOLOGY	20	1	21
GEOPHYSICS	66	1	67
GEOMORPHOL,GLACIAL GEOLOGY	27		27
HYDROLOGY	30		30
OCEANOGRAPHY	84	4	88
METEOROLOGY	57	1	58
APPL GEOL,GEOL ENG,ECON GEOL	22		22
FUEL TECHNOL,PETROL ENG	10		10
EARTH SCIENCES,GENERAL	38	2	40
EARTH SCIENCES,OTHER	26	1	27
ENGINEERING	3293	45	3338
AERONAUTICAL AND ASTRONAUTICAL	165	2	167
AGRICULTURAL	74	1	75
BIOMEDICAL ENGINEERING	70	1	71
CIVIL	351	6	357
CHEMICAL	404	4	408
CERAMIC	25	1	26
ELECTRICAL	667	6	673
ELECTRONICS	113	1	114
INDUSTRIAL	107	2	109
NUCLEAR ENGINEERING	128	1	129
ENGINEERING MECHANICS	172	4	176
ENGINEERING PHYSICS	33	1	34
MECHANICAL	361	3	364
METALLURGY AND PHYS MET ENG	137	3	140
OPERATIONS RESEARCH	101	3	104
FUEL TECH, PETROL ENGR	6		6
SANITARY	53	1	54
MINING ENGINEERING	12		12
MATERIAL SCIENCE ENGINEERING	129	3	132
ENGINEERING,GENERAL	37		37
ENGINEERING,OTHER	148	2	150
LIFE SCIENCES	4197	871	5068
BIOLOGICAL SCIENCES	2660	719	3379
BIOCHEMISTRY	507	129	636
BIOPHYSICS	107	8	115
BIOMETRICS,BIOSTATISTICS	31	3	34
ANATOMY	96	31	127
CYTOLOGY	20	18	38
EMBRYOLOGY	19	10	29
IMMUNOLOGY	37	12	49
BOTANY	160	50	210
ECOLOGY	118	16	134
HYDROBIOLOGY	10	1	11
MICROBIOLOGY	287	93	380
PHYSIOLOGY,ANIMAL	290	67	357
PHYSIOLOGY,PLANT	72	20	92
ZOOLOGY	264	67	331
GENETICS	103	24	127
ENTOMOLOGY	166	16	182
MOLECULAR BIOLOGY	89	30	119
BIOL SCIENCES,GENERAL	144	46	190
BIOL SCIENCES,OTHER	140	78	218
AGRICULTURAL SCIENCES	994	37	1031
AGRONOMY	150	2	152
AGRICULTURAL ECONOMICS	172	6	178
ANIMAL HUSBANDRY	34	1	35
FOOD SCIENCE AND TECHNOLOGY	82	10	92
FISH AND WILDLIFE	46	2	48
FORESTRY	78		78
HORTICULTURE	49	1	50
SOILS AND SOIL SCIENCE	100	2	102
ANIMAL SCIENCES	109	4	113
PHYTOPATHOLOGY	94	8	102
AGRICULTURE,GENERAL	4		4
AGRICULTURE,OTHER	76	1	77
MEDICAL SCIENCES	465	108	573
MEDICINE AND SURGERY	3		3
PUBLIC HEALTH	64	28	92
VETERINARY MEDICINE	29	3	32
HOSPITAL ADMINISTRATION	4		4
PARASITOLOGY	14	5	19
PATHOLOGY	72	6	78
PHARMACOLOGY	133	27	160
PHARMACY	71	1	72
MEDICAL SCIENCES, GENERAL	12	4	16
MEDICAL SCIENCES, OTHER	63	34	97
ENVIRONMENTAL SCIENCES	78	7	85

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
SOCIAL SCIENCES (INCL PSYCH)	**4668**	**1243**	**5911**
ANTHROPOLOGY	228	96	324
COMMUNICATIONS	145	35	180
SOCIOLOGY	445	154	599
ECONOMICS	850	57	907
ECONOMETRICS	31		31
STATISTICS	56	6	62
GEOGRAPHY	198	17	215
AREA STUDIES	27	2	29
POLITICAL SCIENCE,PUBLIC ADMIN	687	93	780
INTERNATIONAL RELATIONS	101	25	126
URBAN AND REG PLANNING	46	7	53
SOCIAL SCIENCES,GENERAL	33	5	38
SOCIAL SCIENCES,OTHER	93	30	123
PSYCHOLOGY	1728	716	2444
CLINICAL	517	220	737
COUNSELING AND GUIDANCE	140	59	199
DEVELOP AND GERONTOL	72	77	149
EDUCATIONAL	78	35	113
SCHOOL PSYCHOLOGY	67	41	108
EXPERIMENTAL	248	85	333
COMPARATIVE	21	3	24
PHYSIOLOGICAL	89	33	122
INDUSTRIAL AND PERSONNEL	70	6	76
PERSONALITY	34	17	51
PSYCHOMETRICS	19	5	24
SOCIAL	160	54	214
PSYCHOLOGY,GENERAL	113	41	154
PSYCHOLOGY,OTHER	100	40	140
ARTS AND HUMANITIES	**3817**	**1547**	**5364**
ART, FINE AND APPLIED	8		8
ART, HISTORY AND CRITICISM	61	54	115
HISTORY,AMERICAN	402	48	450
HISTORY,EUROPEAN	338	64	402
HISTORY,GENERAL AND OTHER	274	57	331
HISTORY AND PHILOSOPHY OF SCIENCE	20	10	30
MUSIC	269	80	349
SPEECH AS A DRAMATIC ART	194	72	266
ARCHEOLOGY	11	10	21
RELIGION	155	13	168
PHILOSOPHY	343	62	405
LINGUISTICS	142	65	207
AMERICAN LANG AND LIT	182	82	264
ENGLISH LANG AND LIT	713	435	1148
GERMAN LANG AND LIT	114	81	195
RUSSIAN LANG AND LIT	31	26	57
FRENCH LANG AND LIT	119	149	268
SPANISH AND PORTUGUESE LANG AND LIT	163	86	249
ITALIAN LANG AND LIT	19	9	28
CLASSICAL LANG AND LIT	58	27	85
ALL OTHER MODERN LANGUAGES	82	39	121
ARTS AND HUMANITIES,GENERAL	11	9	20
ARTS AND HUMANITIES,OTHER	108	69	177
PROFESSIONAL FIELDS	**1261**	**200**	**1461**
RELIGION AND THEOLOGY	47	3	50
THEOLOGY	140	11	151
BUSINESS ADMINISTRATION	759	26	785
HOME ECONOMICS	6	43	49
JOURNALISM	15	4	19
SPEECH AND HEARING SCIENCES	106	54	160
LAW,JURISPRUDENCE	37	3	40
SOCIAL WORK	83	31	114
LIBRARY AND ARCHIVAL SCIENCE	54	24	78
PROFESSIONAL FIELDS,OTHER	14	1	15

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
EDUCATION	**5464**	**1784**	**7248**
FOUNDATIONS,SOCIAL,PHILOS	229	73	302
EDUCATIONAL PSYCHOLOGY	309	167	476
ELEMENTARY EDUCATION, GENERAL	140	173	313
SECONDARY EDUCATION, GENERAL	195	59	254
HIGHER EDUCATION	389	102	491
ADULT EDUC AND EXTENSION EDUC	92	16	108
EDUCATIONAL MEAS AND STATISTICS	83	25	108
CURRICULUM AND INSTRUCTION	474	196	670
EDUCATIONAL ADMIN AND SUPERVISION	1320	436	1456
GUIDANCE,COUNS,STUDENT PERSONNEL	500	169	669
SPECIAL EDUC,GIFTED,HANDICAPPED,ETC	198	98	296
AUDIO-VISUAL MEDIA	93	13	106
AGRICULTURE	32		32
ART	31	16	47
BUSINESS	63	29	92
ENGLISH	61	31	92
FOREIGN LANGUAGE	19	12	31
HOME ECONOMICS		39	39
INDUSTRIAL ARTS	64	1	65
MATHEMATICS	110	24	134
MUSIC	91	31	122
PHYS ED, HEALTH, AND REC	270	98	368
SCIENCE EDUCATION	153	26	179
SOCIAL SCIENCE EDUCATION	54	13	67
VOCATIONAL EDUCATION	118	14	132
OTHER TEACHING FIELDS	70	67	137
EDUCATION,GENERAL	188	78	266
EDUCATION,OTHER	118	78	196
OTHER AND UNSPECIFIED	**83**	**16**	**99**

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

TABLE 2
STATISTICAL PROFILE OF FY 1973 DOCTORATE RECIPIENTS, BY FIELD OF DOCTORATE

TOTAL ALL DOCTORATES

	FY 1973 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	ENG FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES	ENVIRONMENTAL SCIENCES
NUMBER IN FIELD	33727	1590	1849	577	4016	1222	3338	8576	1850	1529	3379	573	1031	85
MALE %	82.0	96.5	90.3	96.2	93.6	90.3	98.7	95.1	78.5	79.0	78.7	81.2	96.4	91.8
FEMALE %	18.0	3.5	9.7	3.8	6.4	9.7	1.3	4.9	21.5	21.0	21.3	18.8	3.6	8.2
U.S. CITIZENSHIP %	82.6	74.7	78.6	78.7	77.0	77.3	63.7	71.9	84.1	82.5	83.4	73.5	62.7	83.5
FOREIGN CITIZENSHIP %	15.3	23.4	19.7	20.3	21.3	20.8	34.9	26.5	14.1	15.4	14.7	22.3	37.0	16.5
UNKNOWN %	2.1	1.9	1.7	1.0	1.7	1.9	1.4	1.6	1.8	2.0	1.9	4.2	.4	.0
MARRIED %	73.5	67.7	71.5	77.1	70.8	69.8	76.3	72.8	70.4	73.6	71.9	71.6	85.5	80.0
NOT MARRIED %	23.1	28.6	25.6	19.8	26.0	26.8	21.1	24.2	26.2	22.6	24.6	22.7	12.7	18.8
UNKNOWN %	3.4	3.6	2.9	3.1	3.2	3.4	2.6	3.0	3.4	3.7	3.5	5.8	1.8	1.2
MEDIAN AGE AT DOCTORATE	31.3	29.2	28.5	30.4	29.1	29.1	30.4	29.5	29.1	30.2	29.6	31.1	31.1	32.1
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	59.0	78.5	87.3	58.2	79.7	75.2	83.1	80.4	13.7	66.8	37.8	33.0	68.8	1.2
PERCENT WITH MASTERS	81.4	65.2	38.7	76.7	54.7	81.2	91.3	72.7	50.1	75.9	61.7	59.5	92.1	90.6
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.4	7.0	6.1	7.7	6.7	6.8	7.7	7.1	6.4	7.4	6.9	7.8	7.9	8.3
REGISTERED TIME YRS	5.8	6.1	5.2	6.0	5.7	5.6	5.6	5.7	5.4	5.8	5.6	5.6	5.4	5.6
POSTDOCTORAL STUDY %														
FELLOWSHIP	7.5	15.1	24.0	9.4	18.4	4.3	5.7	11.4	38.1	17.6	28.8	15.9	6.6	4.7
RESEARCH ASSOC	6.0	27.3	22.9	14.7	23.5	3.4	7.1	14.3	16.1	10.8	13.7	7.9	8.4	5.9
TRAINEESHIP	.5	.6	.6	.2	.5	.3	.3	.4	1.6	1.2	1.4	.3	.8	.0
OTHER	1.6	1.9	1.8	.2	1.6	1.4	1.0	1.3	6.4	1.6	4.3	5.4	1.0	1.2
POSTDOCTORAL EMPLOYMENT %														
EDUC INSTITUTION	53.7	18.3	16.0	6.5	19.7	65.2	22.6	27.3	19.8	42.7	30.2	32.5	39.7	35.3
INDUSTRY/BUSINESS	9.0	12.3	20.1	14.2	16.1	9.2	39.7	24.3	4.4	4.7	4.5	10.3	13.6	24.7
GOVERNMENT	8.3	11.3	4.8	15.6	8.9	6.1	12.8	10.0	4.6	8.0	6.2	11.5	18.5	16.5
NONPROFIT	3.3	1.3	.8	.9	1.0	.9	2.5	.6	2.2	2.4	2.3	4.0	2.2	4.7
OTHER & UNKNOWN	3.9	3.6	2.8	4.0	3.3	3.0	3.9	3.5	1.8	4.3	2.9	3.7	5.1	1.2
POSTDOCT STATUS UNKN %	6.1	8.3	6.2	5.4	6.9	6.1	4.4	5.8	5.1	6.6	5.8	8.6	4.1	5.9
POSTDOCT WORK ACTIVITY %														
PRIMARY ACTIVITY														
R & D	21.4	54.0	52.5	41.7	50.9	27.8	61.3	51.7	40.4	30.3	34.2	38.6	52.0	31.4
TEACHING	51.4	30.8	30.6	37.8	32.1	61.9	20.2	31.8	42.3	52.5	48.6	33.8	22.8	30.0
ADMINISTRATION	10.2	3.2	2.6	2.0	2.7	.9	2.9	2.5	2.8	2.3	2.5	7.6	2.7	12.9
PROF. SERVICES	8.4	2.3	3.4	6.7	3.7	2.7	6.0	4.6	6.4	4.7	5.4	10.4	8.0	11.4
OTHER	1.6	1.3	1.8	4.0	2.1	.7	2.3	1.9	1.3	2.2	1.9	2.5	4.3	7.1
ACTIVITY UNKNOWN	7.1	8.3	9.1	7.9	8.6	6.0	7.2	7.5	6.8	7.9	7.5	7.0	10.3	7.1
SECONDARY ACTIVITY														
R & D	25.4	16.9	16.1	27.4	18.7	42.6	16.5	22.0	28.7	33.2	31.4	25.1	16.8	27.1
TEACHING	9.4	8.9	6.1	12.6	8.5	11.8	10.3	10.0	17.8	10.8	13.6	14.9	15.8	12.9
ADMINISTRATION	7.2	5.8	7.3	6.4	6.5	2.6	8.2	6.6	6.3	6.2	6.2	8.5	7.1	10.0
PROF. SERVICES	6.3	4.2	3.4	7.2	4.5	3.7	6.1	5.1	4.0	5.3	4.8	5.9	8.0	7.1
OTHER	1.1	.4	.4	.2	.4	.5	1.1	.8	.5	.4	.4	1.1	.9	2.9
NO SECONDARY ACITVITY	43.5	55.5	57.6	38.3	52.8	32.8	50.5	48.1	36.1	36.2	36.2	37.5	41.2	32.9
UNKNOWN	7.1	8.3	9.1	7.9	8.6	6.0	7.2	7.5	6.8	7.9	7.5	7.0	10.3	7.1
POSTDOCT REGION OF EMPLOYMENT														
NEW ENGLAND	4.9	4.7	4.5	4.2	4.5	5.5	5.6	5.2	3.0	2.9	3.0	3.7	2.6	4.3
MIDDLE ATLANTIC	13.0	11.6	16.7	9.9	13.4	12.0	13.6	13.2	11.5	10.4	10.9	12.1	4.9	14.3
EAST NO CENTRAL	13.2	6.5	14.3	6.9	9.8	13.0	11.1	11.0	12.7	9.5	10.7	13.8	8.6	15.7
WEST NO CENTRAL	5.3	3.0	4.9	1.5	3.5	4.3	3.2	3.5	5.8	4.8	5.2	7.9	7.0	4.3
SOUTH ATLANTIC	12.7	14.0	13.4	14.8	13.9	10.0	10.4	11.5	14.2	14.8	14.6	12.4	12.1	17.1
EAST SO CENTRAL	3.9	3.6	2.1	1.2	2.5	3.5	2.9	2.9	4.0	4.3	4.2	4.5	4.0	4.3
WEST SO CENTRAL	5.8	3.6	4.1	11.9	5.5	4.3	5.3	5.2	7.9	5.8	6.6	4.5	6.4	4.3
MOUNTAIN	4.2	7.0	2.4	9.1	5.5	3.5	4.7	4.8	1.5	3.7	2.8	2.3	3.2	5.7
PACIFIC & INSULAR	9.4	12.1	6.0	11.9	9.5	9.5	10.8	10.1	10.7	10.5	10.6	10.7	5.8	10.0
FOREIGN	7.6	6.6	7.1	9.6	7.4	9.7	10.1	9.1	7.2	10.1	9.0	11.3	24.9	.0
REGION UNKNOWN	20.0	27.4	24.6	18.8	24.5	24.8	22.4	23.5	21.6	23.1	22.5	16.9	20.6	20.0

Refer to explanatory note on page 6 and description of doctoral field groupings on page 19.

TABLE 2. CONTINUED

TOTAL ALL DOCTORATES

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT SCI, PUBLIC ADMIN, INTERNT'L REL	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG AND AMER LANG & LIT	FOREIGN LANG & LIT	OTHER ARTS & HUMANITIES	ARTS & HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	OTHER OR UNSPECIFIED*	TOTAL NON-SCIENCES
5068	2444	938	923	906	700	5911	19555	1213	1412	1003	1736	5364	1461	7248	99	14172
82.8	70.7	93.9	72.9	87.0	85.4	79.0	87.0	89.2	63.4	58.4	75.0	71.2	86.3	75.4	83.9	75.0
17.2	29.3	6.1	27.1	13.0	14.6	21.0	13.0	14.8	36.6	41.6	25.0	28.8	13.7	24.6	16.2	25.0
78.1	93.0	69.3	85.2	83.3	80.7	85.4	77.5	91.8	92.5	82.7	86.9	88.7	81.9	92.9		89.7
20.1	5.3	28.5	12.6	14.3	17.7	13.0	20.8	6.9	5.2	15.5	9.4	8.9	14.5	5.4		7.7
1.8	1.7	2.2	2.3	2.3	1.6	1.0	1.8	1.2	2.3	1.9	3.6	2.4	3.6	1.7		2.6
74.7	68.6	75.8	74.9	74.9	79.6	73.0	73.4	72.3	66.5	67.6	67.1	68.2	77.4	77.5		73.6
21.9	28.9	21.1	22.2	20.9	17.3	24.0	23.5	25.1	30.2	29.3	27.7	28.1	18.2	19.6		22.6
3.4	2.5	3.1	2.9	4.2	3.1	3.0	3.1	2.6	3.3	3.1	5.2	3.7	4.4	2.8		3.7
30.1	29.4	30.4	31.4	31.4	32.2	30.5	30.0	31.5	31.6	32.4	32.4	32.0	33.2	36.5		34.2
42.9	68.2	58.1	52.9	59.6	44.1	60.0	64.5	67.0	78.4	62.4	50.4	63.8	35.5	44.2		51.3
68.2	76.3	75.8	83.9	84.9	92.6	80.6	73.9	90.4	88.1	86.7	82.0	86.4	90.1	96.6		91.6
7.2	6.7	7.6	8.4	8.7	9.0	7.7	7.3	8.9	9.1	9.1	9.5	9.2	10.0	12.5		10.7
5.6	5.4	5.5	6.2	6.1	5.6	5.7	5.6	6.7	6.3	6.3	6.3	6.4	5.9	6.1		6.2
22.4	6.7	1.8	3.1	2.5	1.0	4.1	12.1	2.9	1.1	2.8	1.4	1.9	.7	.8		1.2
11.8	2.8	1.7	1.7	1.5	1.0	2.0	9.9	.6	.3	1.3	.9	.7	.5	.5		.6
1.1	1.4	.3	.1	.2	.1	.7	.7	.0	.2	.1	.3	.2	.3	.3		.3
3.7	1.5	.5	1.6	1.2	.3	1.2	1.9	2.2	1.9	2.2	1.5	1.9	.5	.8		1.2
[illegible]	44.4	63.4	75.5	67.3	74.0	59.3	38.3	74.5	81.9	77.5	77.1	77.8	69.1	74.9		75.0
[illegible]	5.0	6.0	2.0	3.2	5.0	4.4	13.9	1.4	1.3	1.4	2.4	1.7	5.8	1.7		2.2
9.5	16.9	11.4	3.8	9.2	6.3	11.5	10.3	3.1	.9	1.2	1.5	1.6	6.7	8.4		5.6
2.5	9.7	4.5	4.3	2.8	3.3	6.2	3.2	2.3	.5	1.2	2.8	1.8	7.5	3.6		3.3
3.4	6.1	5.1	2.1	4.1	4.1	4.8	3.9	5.8	4.7	3.6	3.1	4.2	2.3	4.3		4.0
5.7	5.6	5.2	5.7	7.9	4.9	5.9	5.8	7.3	7.2	8.8	8.9	8.1	6.5	4.7		6.6
39.9	16.0	26.1	17.9	11.6	15.1	17.2	36.4	4.5	1.3	3.2	3.5	3.1	8.5	6.6		5.5
38.7	35.4	60.3	72.4	66.1	67.6	54.3	41.6	78.7	88.6	85.1	82.0	83.6	66.0	45.7		61.7
3.5	4.4	3.3	2.6	7.8	5.2	4.6	3.5	3.4	1.5	2.0	3.0	2.5	8.8	29.3		17.3
6.9	37.3	3.3	2.0	2.0	4.8	16.5	9.5	1.8	.4	1.6	2.8	1.7	9.3	10.7		7.3
2.8	.8	1.2	.5	2.8	1.8	1.3	1.9	1.5	1.0	.6	2.8	1.6	1.3	1.0		1.2
8.2	6.0	5.9	4.6	9.7	5.4	6.2	7.2	10.1	7.1	7.5	5.9	7.5	6.1	6.7		6.9
26.2	32.6	36.7	45.9	37.5	35.1	36.4	28.3	31.8	30.0	30.0	27.7	29.7	29.4	15.7		22.3
14.4	15.4	7.8	9.6	5.9	7.4	10.7	11.2	3.0	1.6	2.7	4.4	3.0	8.3	10.6		7.6
6.9	6.6	6.3	3.5	6.0	6.0	5.9	6.4	5.7	4.3	4.2	5.9	5.1	8.2	10.2		8.1
5.9	9.4	3.3	2.5	2.6	4.0	5.5	5.4	1.7	2.5	2.0	4.4	2.8	9.9	9.7		7.2
.7	.7	.5	.6	.9	2.0	.8	.8	.7	2.4	1.3	3.7	2.2	1.3	1.0		1.5
37.7	29.5	39.6	33.4	37.5	40.1	34.4	40.8	47.0	52.[illegible]	52.3	48.0	49.7	36.7	46.0		46.4
8.2	5.9	5.9	4.6	9.7	5.4	6.2	7.2	10.1	7.1	7.5	5.9	7.5	6.1	6.7		6.9
3.0	5.6	6.4	6.1	6.4	4.5	5.8	5.0	5.5	6.8	6.9	5.3	6.0	4.2	4.2		4.9
9.4	17.2	14.0	13.7	13.0	12.5	14.9	13.1	14.3	13.9	14.1	14.4	14.2	11.0	12.4		12.9
10.6	14.3	11.1	14.2	12.5	15.1	13.6	11.9	12.0	13.2	15.9	13.8	13.6	15.0	15.3		14.7
6.0	4.9	4.6	5.9	3.7	5.4	4.9	4.5	5.5	4.7	5.6	6.4	5.6	5.7	6.7		6.2
13.7	11.7	18.5	12.6	17.9	11.4	13.9	12.9	11.3	10.4	11.4	10.6	10.8	17.0	12.7		12.5
4.2	3.8	4.0	1.4	4.0	3.1	3.4	3.3	3.8	4.0	2.2	3.1	3.4	5.3	5.2		4.5
6.2	4.9	5.1	4.2	4.2	6.9	5.0	5.3	5.3	6.0	5.4	5.2	5.5	9.2	6.5		6.4
2.9	3.9	3.3	5.1	2.9	3.5	3.8	4.0	2.7	3.5	3.5	3.0	3.1	5.3	5.1		4.4
9.2	10.2	7.5	13.3	7.8	12.0	10.1	9.9	7.3	7.5	7.5	9.9	8.2	9.6	9.1		8.9
13.7	2.6	16.0	11.4	10.3	11.1	8.5	9.8	5.5	4.1	4.7	7.4	5.6	8.8	4.0		5.1
21.2	20.9	9.4	12.0	17.3	14.5	16.2	20.3	26.9	25.8	22.7	20.9	23.9	9.0	18.8		19.6

*Statistics are not presented for this group because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF FY 1973 DOCTORATE RECIPIENTS, BY FIELD OF DOCTORATE

WOMEN DOCTORATES

	FY 1973 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	EMP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES	ENVIRONMENTAL SCIENCES *
NUMBER IN FIELD	33727	1590	1849	577	4016	1222	3338	8576	1850	1529	3379	573	1031	85
TOTAL FEMALE	6082	56	179	22	257	119	45	421	398	321	719	108	37	7
% FEMALE	18.0	3.5	9.7	3.8	6.4	9.7	1.3	4.9	21.5	21.0	21.3	18.8	3.6	8.2
U.S. CITIZENSHIP %	88.3	58.9	70.9	86.4	69.6	84.9	46.7	71.5	86.4	80.1	83.6	80.6	54.1	
FOREIGN CITIZENSHIP %	9.7	39.3	27.9	9.1	28.8	15.1	53.3	27.6	12.1	18.1	14.7	16.7	45.9	
UNKNOWN %	2.0	1.8	1.1	4.5	1.6	.0	.0	1.0	1.5	1.9	1.7	2.8	.0	
MARRIED %	55.2	58.9	55.3	54.5	56.0	57.1	75.6	58.4	53.8	55.8	54.7	43.5	62.2	
NOT MARRIED %	42.1	35.7	41.9	40.9	40.5	42.0	24.4	39.2	43.7	41.4	42.7	52.8	37.8	
UNKNOWN %	2.6	5.4	2.8	4.5	3.5	.8	.0	2.4	2.5	2.8	2.6	3.7	.0	
MEDIAN AGE AT DOCTORATE	32.6	29.1	28.4	29.5	28.7	28.7	28.6	28.7	28.9	30.0	29.3	32.3	30.1	
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	54.8	75.0	86.6	54.5	81.3	87.4	71.1	81.9	14.1	69.5	38.8	38.0	37.8	
PERCENT WITH MASTERS	82.4	64.3	45.3	72.7	51.8	87.4	88.9	65.8	50.3	70.1	59.1	65.7	83.8	
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	9.7	7.1	6.4	7.0	6.6	6.6	6.6	6.6	6.5	8.0	7.1	8.7	7.8	
REGISTERED TIME YRS	6.0	6.3	5.3	5.9	5.5	5.5	5.4	5.5	5.3	5.9	5.5	5.7	5.3	
POSTDOCTORAL STUDY %														
FELLOWSHIP	7.3	21.4	25.7	9.1	23.3	5.0	2.2	15.9	43.0	20.6	33.0	21.3	8.1	
RESEARCH ASSOC	3.7	30.4	14.5	22.7	18.7	2.5	17.8	14.0	15.3	12.5	14.0	4.6	10.8	
TRAINEESHIP	.7	.0	.0	.0	.0	.0	.0	.0	2.0	1.6	1.8	.9	2.7	
OTHER	1.9	.0	2.2	.0	1.6	4.2	2.2	2.4	4.0	2.2	3.2	2.8	.0	
POSTDOCTORAL EMPLOYMENT %														
EDUC INSTITUTION	60.3	23.2	24.0	40.9	25.3	67.2	40.0	38.7	19.8	42.7	30.0	38.0	40.5	
INDUSTRY/BUSINESS	3.1	5.4	13.4	13.6	11.1	7.6	17.8	11.2	2.8	.9	1.9	.9	5.4	
GOVERNMENT	5.6	3.6	1.7	4.5	2.6	3.4	8.9	3.3	3.0	3.7	3.3	10.2	16.2	
NONPROFIT	3.4	.0	.6	.0	.4	.0	2.2	.5	2.0	1.6	1.8	5.6	2.7	
OTHER & UNKNOWN	6.2	3.6	9.5	4.5	7.8	6.7	4.4	7.1	3.0	7.2	4.9	4.6	8.1	
POSTDOCT STATUS UNKN %	7.7	12.5	8.4	4.5	8.9	3.4	4.4	6.9	5.0	7.2	6.0	11.1	5.4	
POSTDOCT WORK ACTIVITY %														
PRIMARY ACTIVITY														
R & D	12.2	30.0	36.4	21.4	33.6	25.7	48.5	32.4	28.7	23.9	25.8	25.0	44.4	
TEACHING	61.0	40.0	43.2	57.1	44.3	62.4	36.4	50.4	56.6	57.2	57.0	51.6	33.3	
ADMINISTRATION	6.8	.0	.0	.0	.0	.0	3.0	.4	1.6	.6	1.0	9.4	3.7	
PROF. SERVICES	10.0	5.0	3.4	14.3	4.9	4.0	.0	3.9	3.3	3.3	3.3	6.3	3.7	
OTHER	1.4	5.0	1.1	.0	1.6	.0	3.0	1.2	.8	.6	.7	3.1	.0	
ACTIVITY UNKNOWN	8.7	20.0	15.9	7.1	15.6	7.9	9.1	11.7	9.0	14.4	12.3	4.7	14.8	
SECONDARY ACTIVITY														
R & D	25.8	10.0	17.0	50.0	19.7	37.6	30.3	28.1	34.4	35.0	34.8	28.1	14.8	
TEACHING	8.8	5.0	10.2	14.3	9.8	13.9	15.2	12.1	12.3	9.4	10.6	10.9	22.2	
ADMINISTRATION	6.1	5.0	1.1	7.1	2.5	2.0	3.0	2.3	3.3	2.8	3.0	3.1	11.1	
PROF. SERVICES	6.9	5.0	3.4	7.1	4.1	3.0	6.1	3.9	3.3	5.0	4.3	10.9	3.7	
OTHER	1.5	.0	1.1	.0	.8	.0	.0	.4	.0	.0	.0	1.6	.0	
NO SECONDARY ACITVITY	42.2	55.0	51.1	14.3	47.5	35.6	36.4	41.4	37.7	33.3	35.1	40.6	33.3	
UNKNOWN	8.7	20.0	15.9	7.1	15.6	7.9	9.1	11.7	9.0	14.4	12.3	4.7	14.8	
POSTDOCT REGION OF EMPLOYMENT														
NEW ENGLAND	5.3	5.0	4.5	14.3	5.7	5.0	3.0	5.1	3.3	2.2	2.6	3.1	.0	
MIDDLE ATLANTIC	13.6	10.0	14.8	7.1	13.1	14.9	18.2	14.5	12.3	6.7	8.9	21.9	7.4	
EAST NO CENTRAL	13.2	20.0	11.4	14.3	13.1	8.9	15.2	11.7	12.3	12.8	12.6	14.1	14.8	
WEST NO CENTRAL	4.5	.0	4.5	.0	3.3	3.0	3.0	3.1	5.7	5.6	5.6	1.6	3.7	
SOUTH ATLANTIC	10.9	5.0	5.7	14.3	6.6	10.9	6.1	8.2	8.2	11.1	9.9	12.5	3.7	
EAST SO CENTRAL	2.8	10.0	2.3	.0	3.3	3.0	3.0	3.1	1.6	1.7	1.7	1.6	3.7	
WEST SO CENTRAL	5.7	.0	1.1	14.3	2.5	3.0	.0	2.3	10.7	4.4	7.0	.0	3.7	
MOUNTAIN	3.2	5.0	3.4	.0	3.3	2.0	.0	2.3	1.6	2.2	2.0	3.1	3.7	
PACIFIC & INSULAR	8.6	5.0	3.4	7.1	4.1	14.9	9.1	9.0	10.7	11.7	11.3	14.1	7.4	
FOREIGN	4.5	10.0	6.8	.0	6.6	4.0	15.2	6.6	1.6	10.0	6.6	7.8	25.9	
REGION UNKNOWN	27.7	30.0	42.0	28.6	38.5	30.7	27.3	34.0	32.0	31.7	31.8	20.3	25.9	

Refer to explanatory note on page 6, and the description of doctoral field groupings on page 19.

TABLE 2. CONTINUED

WOMEN DOCTORATES

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT SCI, PUBLIC ADMIN, INTERNAT'L REL	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG AND AMER LANG & LIT	FOREIGN LANG & LIT	OTHER ARTS & HUMANITIES	ARTS & HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	OTHER OR UNSPECIFIED	TOTAL NON-SCIENCES
5068	2444	938	923	906	700	5911	19555	1213	1412	1003	1736	5364	1461	7248	99	14172
871	716	57	250	118	102	1243	2535	179	517	417	434	1547	200	1784	16	3547
17.2	29.3	6.1	27.1	13.0	14.6	21.0	13.0	14.8	36.6	41.6	25.0	28.8	13.7	24.6	16.2	25.0
82.0	92.3	84.2	87.2	89.0	79.4	89.5	83.9	92.2	93.2	83.5	87.8	88.9	91.0	94.1		91.4
16.3	5.9	15.8	10.4	10.2	20.6	8.8	14.5	7.8	4.4	13.7	8.5	8.5	8.0	4.1		6.2
1.7	1.8	.0	2.4	.8	.0	1.6	1.5	.0	2.3	2.9	3.7	2.6	1.0	1.8		2.4
53.5	56.6	57.9	60.8	70.3	60.8	59.1	57.1	63.7	56.1	61.6	51.4	57.1	49.5	52.0		53.9
43.9	41.6	38.6	38.0	27.1	38.2	39.1	40.7	34.6	40.4	34.8	42.9	38.9	49.0	46.2		43.1
2.6	1.8	3.5	1.2	2.5	1.0	1.8	2.2	1.7	3.5	3.6	5.8	3.9	1.5	1.8		3.0
29.5	30.0	29.6	31.5	31.4	32.6	30.6	29.8	32.4	32.0	32.2	32.8	32.3	36.8	38.6		35.3
38.3	63.0	64.9	50.0	69.5	32.4	58.6	55.5	68.7	78.1	65.2	45.6	64.4	35.0	47.5		54.3
61.2	73.3	80.7	84.8	83.1	92.2	78.4	70.4	89.9	89.2	88.0	84.8	87.7	94.5	97.3		92.7
7.3	7.2	7.3	8.4	9.2	9.9	7.9	7.4	9.8	9.7	9.1	10.1	9.6	12.8	14.0		11.6
5.5	5.6	5.6	6.2	6.5	5.9	5.8	5.6	7.0	6.6	6.4	6.3	6.5	5.9	6.1		6.3
30.5	6.8	.0	2.4	.8	1.0	4.6	15.4	3.4	1.2	2.4	1.4	1.8	2.0	1.1		1.4
12.7	2.7	.0	1.2	.0	1.0	1.9	7.6	1.7	.8	1.9	1.4	1.4	.0	.8		1.0
1.7	2.0	.0	.0	.8	.0	.2	1.2	.0	.2	.2	.5	.3	.5	.4		.4
3.0	2.5	.0	3.2	2.5	1.0	2.4	2.6	5.0	1.7	1.9	1.4	2.1	1.0	1.0		1.5
31.3	41.5	64.9	72.4	64.4	64.7	52.9	43.1	69.8	77.6	73.4	71.2	73.8	64.5	72.8		72.5
2.1	3.9	7.0	1.2	3.4	2.9	3.4	4.2	2.8	1.7	1.4	3.7	2.3	2.5	2.2		2.3
4.8	15.9	12.3	2.8	5.9	7.8	11.5	7.9	3.4	.8	1.7	.9	1.3	7.0	6.1		4.0
2.3	9.4	5.3	4.4	5.1	5.9	7.5	4.5	1.1	.8	.7	1.6	1.0	9.5	3.2		2.8
4.9	8.8	7.0	4.4	8.5	7.8	7.7	6.7	6.1	7.5	6.0	5.5	6.4	5.5	5.7		5.9
6.5	6.6	3.5	8.0	8.5	7.8	7.0	6.8	6.7	7.9	10.3	12.4	9.7	7.5	6.8		8.4
27.3	14.9	27.3	19.2	15.5	25.3	17.5	22.0	6.7	1.5	5.2	6.7	4.5	10.7	8.4		6.8
54.0	33.6	56.4	70.4	67.0	63.7	48.4	50.0	77.2	86.2	83.3	78.1	82.2	63.5	54.8		66.9
2.5	2.8	1.8	1.9	1.9	3.3	2.5	2.2	2.7	1.1	1.7	2.2	1.8	6.2	15.8		9.3
4.0	39.2	3.6	.9	2.9	.0	22.3	15.2	.7	.2	1.4	1.4	.9	10.7	11.9		7.2
1.0	.7	.0	.5	4.9	3.3	1.3	1.2	3.4	.9	.6	3.6	1.8	.6	1.2		1.5
11.1	8.8	10.9	7.0	7.8	4.4	8.1	9.3	9.4	10.1	7.8	8.1	8.8	8.4	7.9		8.3
32.1	30.4	23.6	47.9	38.8	33.0	34.7	33.1	33.6	28.5	24.2	27.8	27.7	23.6	16.8		21.8
11.6	16.2	10.9	11.3	3.9	8.8	13.0	12.5	2.0	1.1	3.5	4.7	2.8	7.9	9.9		6.8
3.8	5.1	3.6	3.3	5.8	1.1	4.4	3.9	3.4	3.1	4.9	5.3	4.2	6.2	9.9		7.3
5.3	8.8	3.6	2.8	2.9	2.2	6.1	5.6	2.7	1.8	2.0	4.7	2.7	14.0	10.8		7.6
.3	.7	.0	1.4	1.0	3.3	1.1	.8	.7	3.1	2.3	4.4	3.0	1.1	1.2		2.0
35.9	30.1	47.3	26.3	39.8	47.3	32.7	34.8	48.3	52.4	55.3	45.0	50.7	38.8	43.4		46.2
11.1	8.8	10.9	7.0	7.8	4.4	8.1	9.3	9.4	10.1	7.8	8.1	8.8	8.4	7.9		8.3
2.5	7.0	7.3	8.5	7.8	7.7	7.5	5.9	8.1	6.1	7.2	5.8	6.6	3.9	3.9		5.0
11.1	20.4	18.2	10.3	16.5	13.2	17.2	15.3	16.1	12.9	13.8	12.8	13.5	14.0	12.0		12.7
12.9	11.2	12.7	8.5	7.8	14.3	10.7	11.3	8.1	15.4	13.0	16.7	14.3	13.5	14.2		14.2
4.8	4.6	5.5	6.1	4.9	3.3	4.8	4.6	3.4	3.7	4.6	4.2	4.0	3.4	4.9		4.5
10.1	9.1	20.0	10.8	14.6	9.9	10.7	10.2	10.7	8.3	10.7	10.3	9.8	14.0	12.3		11.4
1.8	2.1	7.3	1.9	1.9	1.1	2.2	2.3	3.4	1.5	1.4	1.9	1.8	2.2	4.2		3.1
5.6	3.5	5.5	4.2	2.9	7.7	4.1	4.2	4.7	5.0	4.0	4.4	4.6	9.6	7.9		6.6
2.3	2.6	1.8	5.6	1.0	3.3	3.1	2.8	1.3	3.1	2.3	2.2	2.4	5.1	3.9		3.4
11.6	9.8	3.6	11.7	6.8	9.9	9.6	10.0	10.1	6.4	4.6	8.9	7.0	8.4	8.4		7.8
8.1	2.5	5.5	9.4	9.7	7.7	5.2	6.1	4.1	2.9	3.7	5.3	3.9	6.2	3.0		3.5
29.3	27.1	12.7	23.0	26.2	22.0	24.9	27.3	30.2	34.6	34.6	27.5	32.2	19.7	25.3		27.9

*Statistics are not presented because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

TABLE 3
PERCENTAGE OF FY 1973 DOCTORATE RECIPIENTS BY SOURCES OF SUPPORT IN GRADUATE SCHOOL BY SUMMARY FIELDS

SOURCES OF SUPPORT IN GRADUATE SCHOOL		DOCTORATE RECIPIENTS BY FIELD: PHYSICAL SCIENCES	ENGINEERING	LIFE SCIENCES	SOCIAL SCIENCES	ARTS AND HUMANITIES	PROF. FIELDS	EDUCATION	TOTAL
		MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN
NSF FELLOWSHIP	N	502/ 42	237/ 6	245/ 64	186/ 53	32/ 10	7/ 1	264/ 34	1473/ 210
	VE	10.8/11.7	7.5/13.3	6.1/ 7.8	4.2/ 4.5	.9/ .7	.6/ .5	5.1/ 2.1	5.6/ 3.7
	HE	34.1/20.0	16.1/ 2.9	16.6/30.5	12.6/25.2	2.2/ 4.8	.5/ .5	17.9/16.2	100.0/100.1
NSF TRAINEESHIP	N	625/ 61	335/ 4	258/ 62	218/ 43	11/ 10	5/ 2	28/ 6	1480/ 188
	VE	13.4/16.9	10.5/ 8.9	6.4/ 7.5	4.9/ 3.7	.3/ .7	.4/ 1.1	.5/ .4	5.7/ 3.3
	HE	42.2/32.4	22.6/ 2.1	17.4/33.0	14.7/22.9	.7/ 5.3	.3/ 1.1	1.9/ 3.2	99.8/100.0
NIH FELLOWSHIP	N	90/ 16	31/ 0	295/ 88	283/ 152	6/ 3	17/ 11	19/ 22	741/ 292
	VE	1.9/ 4.4	1.0/ .0	7.4/10.7	6.4/13.0	.2/ .2	1.4/ 6.0	.4/ 1.3	2.8/ 5.2
	HE	12.1/ 5.5	4.2/ .0	39.8/30.1	38.2/52.1	.8/ 1.0	2.3/ 3.8	2.6/ 7.5	100.0/100.0
NIH TRAINEESHIP	N	78/ 9	53/ 1	800/ 261	357/ 158	7/ 5	24/ 11	15/ 24	1334/ 469
	VE	1.7/ 2.5	1.7/ 2.2	20.0/31.8	8.1/13.6	.2/ .4	2.0/ 6.0	.3/ 1.5	5.1/ 8.3
	HE	5.8/ 1.9	4.0/ .2	60.0/55.7	26.8/33.7	.5/ 1.1	1.8/ 2.3	1.1/ 5.1	100.0/100.0
NDEA FELLOWSHIP	N	496/ 45	268/ 5	349/ 77	606/ 126	862/ 306	104/ 11	513/ 167	3198/ 737
	VE	10.7/12.5	8.4/11.1	8.7/ 9.4	13.8/10.8	24.0/21.4	8.9/ 6.0	9.9/10.2	12.2/ 13.0
	HE	15.5/ 6.1	8.4/ .7	10.9/10.4	18.9/17.1	27.0/41.5	3.3/ 1.5	16.0/22.7	100.0/100.0
OTHER NEW	N	11/ 0	24/ 0	108/ 24	124/ 69	24/ 13	60/ 27	184/ 106	535/ 239
	VE	.2/ .0	.8/ .0	2.7/ 2.9	2.8/ 5.9	.7/ .9	5.1/14.7	3.6/ 6.4	2.0/ 4.2
	HE	2.1/ .0	4.5/ .0	20.2/10.0	23.2/28.9	4.5/ 5.4	11.2/11.3	34.4/44.4	100.1/100.0
AEC FELLOWSHIP	N	56/ 3	60/ 0	28/ 7	1/ 0	1/ 1	0/ 0	5/ 0	151/ 11
	VE	1.2/ .8	1.9/ .0	.7/ .9	.0/ .0	.0/ .1	.0/ .0	.1/ .0	.6/ .2
	HE	37.1/27.3	39.7/ .0	18.5/63.6	.7/ .0	.7/ 9.1	.0/ .0	3.3/ .0	100.0/100.0
NASA TRAINEESHIP	N	244/ 12	188/ 1	41/ 10	29/ 3	4/ 0	3/ 1	2/ 0	511/ 27
	VE	5.3/ 3.3	5.9/ 2.2	1.0/ 1.2	.7/ .3	.1/ .0	.3/ .5	.0/ .0	2.0/ .5
	HE	47.7/44.4	36.8/ 3.7	8.0/37.0	5.7/11.1	.8/ .0	.6/ 3.7	.4/ .0	100.0/ 99.9
GI BILL	N	265/ 0	236/ 0	365/ 3	575/ 2	457/ 6	190/ 1	1091/ 10	3179/ 22
	VE	5.7/ .0	7.4/ .0	9.1/ .4	13.1/ .2	12.7/ .4	16.2/ .5	21.1/ .6	12.1/ .4
	HE	8.3/ .0	7.4/ .0	11.5/13.6	18.1/ 9.1	14.4/27.3	6.0/ 4.5	34.3/45.5	100.0/100.0
OTHER FEDERAL SUPPORT	N	239/ 12	289/ 0	273/ 39	500/ 137	175/ 55	130/ 40	433/ 147	2039/ 430
	VE	5.1/ 3.3	9.1/ .0	6.8/ 4.7	11.4/11.7	4.9/ 3.9	11.1/21.7	8.4/ 8.9	7.8/ 7.6
	HE	11.7/ 2.8	14.2/ .0	13.4/ 9.1	24.5/31.9	8.6/12.8	6.4/ 9.3	21.2/34.2	100.0/100.1
WOODROW WILSON FELLOWSHIP	N	33/ 4	2/ 0	6/ 3	100/ 39	231/ 109	2/ 1	3/ 1	377/ 157
	VE	.7/ 1.1	.1/ .0	.1/ .4	2.3/ 3.3	6.4/ 7.6	.2/ .5	.1/ .1	1.4/ 2.8
	HE	8.8/ 2.5	.5/ .0	1.6/ 1.9	26.5/24.8	61.3/69.4	.5/ .6	.8/ .6	100.0/ 99.8
OTHER NATIONAL FELLOWSHIP	N	74/ 15	70/ 1	99/ 15	234/ 74	267/ 105	33/ 19	175/ 63	952/ 292
	VE	1.6/ 4.2	2.2/ 2.2	2.5/ 1.8	5.3/ 6.3	7.4/ 7.4	2.8/10.3	3.4/ 3.8	3.6/ 5.2
	HE	7.8/ 5.1	7.4/ .3	10.4/ 5.1	24.6/25.3	28.0/36.0	3.5/ 6.5	18.4/21.6	100.1/ 99.9
UNIVERSITY FELLOWSHIP	N	824/ 83	518/ 11	469/ 133	1053/ 268	1220/ 531	264/ 28	555/ 203	4903/ 1257
	VE	17.7/23.1	16.3/24.4	11.7/16.2	23.9/23.0	34.0/37.2	22.5/15.2	10.7/12.3	18.7/ 22.3
	HE	16.8/ 6.6	10.6/ .9	9.6/10.6	21.5/21.3	24.9/42.2	5.4/ 2.2	11.3/16.1	100.1/ 99.9
TEACHING ASSISTANTSHIP	N	3248/ 264	1269/ 22	1565/ 355	2323/ 525	2256/ 860	531/ 55	1705/ 574	12897/ 2655
	VE	69.9/73.3	39.9/48.9	39.1/43.2	52.7/45.0	62.9/60.2	45.2/29.9	32.9/34.9	49.3/ 47.0
	HE	25.2/ 9.9	9.8/ .8	12.1/13.4	18.0/19.8	17.5/32.4	4.1/ 2.1	13.2/21.6	99.9/100.0
RESEARCH ASSISTANTSHIP	N	2738/ 181	1859/ 26	1804/ 260	1590/ 359	416/ 143	320/ 45	960/ 272	9687/ 1286
	VE	58.9/50.3	58.4/57.8	45.1/31.6	36.1/30.8	11.6/10.0	27.3/24.5	18.5/16.5	37.0/ 22.8
	HE	28.3/14.1	19.2/ 2.0	18.6/20.2	16.4/27.9	4.3/11.1	3.3/ 3.5	9.9/21.2	100.0/100.0
EDUC. FUNDS OF INDUSTRY	N	271/ 12	377/ 2	80/ 10	97/ 15	41/ 24	74/ 4	95/ 24	1035/ 91
	VE	5.8/ 3.3	11.9/ 4.4	2.0/ 1.2	2.2/ 1.3	1.1/ 1.7	6.3/ 2.2	1.8/ 1.5	4.0/ 1.6
	HE	26.2/13.2	36.4/ 2.2	7.7/11.0	9.4/16.5	4.0/26.4	7.1/ 4.4	9.2/26.4	100.0/100.1
OTHER INSTITUTION FUNDS	N	231/ 28	209/ 4	301/ 53	554/ 144	461/ 210	157/ 27	557/ 223	2470/ 689
	VE	5.0/ 7.8	6.6/ 8.9	7.5/ 6.4	12.6/12.3	12.8/14.7	13.4/14.7	10.7/13.6	9.4/ 12.2
	HE	9.4/ 4.1	8.5/ .6	12.2/ 7.7	22.4/20.9	18.7/30.5	6.4/ 3.9	22.6/32.4	100.2/100.1
OWN EARNINGS	N	865/ 76	856/ 11	874/ 163	1762/ 469	1627/ 606	591/ 90	3207/ 915	9782/ 2330
	VE	18.6/21.1	26.9/24.4	21.8/19.8	40.0/40.2	45.3/42.4	50.3/48.9	61.9/55.7	37.4/ 41.2
	HE	8.8/ 3.3	8.8/ .5	8.9/ 7.0	18.0/20.1	16.6/26.0	6.0/ 3.9	32.8/39.3	99.9/100.1
SPOUSE'S EARNINGS	N	539/ 50	380/ 8	714/ 101	1011/ 247	1005/ 363	327/ 36	1182/ 362	5158/ 1167
	VE	11.6/13.9	11.9/17.8	17.8/12.3	23.0/21.2	28.0/25.4	27.9/19.6	22.8/22.0	19.7/ 20.7
	HE	10.4/ 4.3	7.4/ .7	13.8/ 8.7	19.6/21.2	19.5/31.1	6.3/ 3.1	22.9/31.0	99.9/100.1
FAMILY CONTRIBUTIONS	N	175/ 11	155/ 4	190/ 37	378/ 116	454/ 194	97/ 10	284/ 121	1738/ 495
	VE	3.8/ 3.1	4.9/ 6.9	4.7/ 4.5	8.6/ 9.9	12.6/13.6	8.3/ 5.4	5.6/ 7.5	6.6/ 8.6
	HE	10.1/ 2.2	8.9/ .8	10.9/ 7.5	21.7/23.4	26.1/39.2	5.6/ 2.0	16.6/24.8	99.9/ 99.9
BORROWINGS	N	305/ 15	219/ 6	331/ 30	708/ 141	726/ 173	201/ 18	954/ 183	3444/ 566
	VE	6.6/ 4.2	6.9/13.3	8.3/ 3.6	16.1/12.1	20.2/12.1	17.1/ 9.8	18.4/11.1	13.2/ 10.0
	HE	8.9/ 2.7	6.4/ 1.1	9.6/ 5.3	20.6/24.9	21.1/30.6	5.8/ 3.2	27.7/32.3	100.1/100.1
OTHER	N	157/ 21	160/ 5	183/ 34	263/ 68	232/ 92	89/ 13	264/ 122	1348/ 355
	VE	3.4/ 5.8	5.0/11.1	4.6/ 4.1	6.0/ 5.4	6.5/ 6.4	7.6/ 7.1	5.1/ 7.4	5.1/ 6.3
	HE	11.6/ 5.9	11.9/ 1.4	13.6/ 9.6	19.5/19.2	17.2/25.9	6.6/ 3.7	19.6/34.4	100.0/100.1
UNDUPLICATED TOTAL	N	4647/ 360	3181/ 45	4001/ 822	4405/1166	3589/1428	1174/ 184	5182/1644	26179/ 5649

Refer to explanatory note on page 7.

SOURCES: NRC, Commission on Human Resources, Doctorate Records File

TABLE 4
NUMBER OF FY 1973 DOCTORATE RECIPIENTS BY STATE AND SUMMARY FIELD

STATE OF DOCTORAL INSTITUTION	NUMBER OF DOCTORATE RECIPIENTS BY FIELD																	
	PHYSICAL SCIENCES		ENGINEERING		LIFE SCIENCES		SOCIAL SCIENCES		ARTS AND HUMANITIES		PROF. FIELDS		EDUCATION		OTHER & UNSPEC.		TOTAL	
	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN	MEN/	WOMEN
U.S. TOTAL	4862/	376	3293/	45	4197/	871	4668/	1243	3817/	1547	1261/	200	5464/	1784	83/	16	27645/	6082
ALABAMA	20/	4	22/	0	33/	8	13/	5	17/	6	3/	0	97/	38	0/	0	205/	61
ALASKA	3/	0	1/	0	2/	0	0/	0	0/	0	0/	0	0/	0	0/	0	6/	0
ARIZONA	50/	1	31/	1	52/	10	41/	9	24/	5	10/	0	107/	43	0/	0	315/	69
ARKANSAS	17/	2	8/	0	14/	3	13/	1	4/	3	24/	1	19/	9	0/	0	99/	19
CALIFORNIA	603/	35	469/	9	463/	132	516/	128	370/	158	101/	16	401/	142	50/	9	2973/	629
COLORADO	73/	2	71/	1	80/	11	89/	27	49/	20	28/	6	192/	39	0/	0	582/	106
CONNECTICUT	97/	9	32/	0	60/	12	85/	21	112/	53	12/	0	46/	14	0/	0	444/	109
DELAWARE	24/	1	15/	0	10/	2	5/	4	13/	2	0/	0	0/	0	0/	0	67/	9
D. C.	73/	7	24/	0	33/	26	98/	31	64/	34	65/	4	74/	23	1/	0	432/	125
FLORIDA	79/	4	38/	2	91/	14	94/	28	64/	21	34/	7	190/	70	0/	0	590/	146
GEORGIA	69/	4	42/	0	69/	11	78/	22	60/	19	27/	2	98/	34	0/	1	443/	93
HAWAII	20/	1	3/	0	33/	5	16/	7	8/	4	0/	0	0/	1	0/	0	80/	18
IDAHO	6/	1	5/	0	8/	0	1/	0	3/	0	0/	0	15/	1	0/	0	38/	2
ILLINOIS	295/	29	192/	5	219/	64	356/	72	322/	118	115/	21	305/	103	1/	0	1805/	412
INDIANA	141/	10	120/	2	140/	24	163/	31	140/	55	55/	14	269/	82	2/	0	1030/	218
IOWA	115/	3	70/	0	114/	11	79/	13	71/	19	30/	1	97/	18	0/	0	576/	65
KANSAS	57/	3	35/	0	79/	13	58/	23	39/	18	3/	4	70/	12	0/	0	341/	73
KENTUCKY	23/	3	15/	0	43/	4	38/	4	14/	8	17/	0	17/	4	1/	0	168/	23
LOUISIANA	45/	4	20/	0	56/	14	36/	12	52/	20	27/	4	42/	11	1/	0	279/	65
MAINE	7/	0	4/	0	8/	3	3/	1	7/	0	0/	0	9/	0	0/	0	38/	4
MARYLAND	122/	10	65/	4	87/	20	78/	29	60/	35	15/	2	52/	44	0/	0	479/	144
MASSACHUSETTS	354/	34	203/	1	145/	48	242/	84	238/	104	72/	7	272/	96	1/	0	1527/	374
MICHIGAN	214/	16	131/	0	233/	29	243/	63	171/	85	65/	12	371/	115	3/	1	1431/	321
MINNESOTA	56/	9	43/	0	94/	14	98/	31	78/	20	29/	2	70/	13	0/	0	468/	89
MISSISSIPPI	9/	1	8/	1	50/	2	37/	5	8/	3	17/	1	98/	23	0/	0	227/	36
MISSOURI	86/	3	104/	1	85/	14	85/	33	100/	30	35/	6	112/	29	1/	0	608/	116
MONTANA	13/	0	6/	0	19/	1	11/	0	0/	0	0/	0	23/	5	0/	0	78/	6
NEBRASKA	28/	2	6/	0	51/	6	25/	6	24/	11	5/	1	56/	10	0/	0	195/	36
NEVADA	10/	0	1/	0	3/	0	5/	2	3/	0	0/	0	0/	0	0/	0	22/	2
NEW HAMPSHIRE	24/	2	5/	0	20/	1	8/	0	1/	2	0/	0	0/	0	0/	0	58/	5
NEW JERSEY	115/	12	72/	1	92/	17	71/	14	81/	26	20/	1	79/	15	1/	0	531/	86
NEW MEXICO	33/	2	24/	0	12/	3	12/	3	31/	15	0/	0	56/	17	0/	0	174/	40
NEW YORK	567/	54	346/	6	354/	103	654/	244	519/	222	113/	24	461/	232	6/	2	3020/	887
NORTH CAROLINA	88/	8	63/	3	147/	31	114/	32	103/	50	15/	8	71/	26	0/	0	601/	158
NORTH DAKOTA	13/	0	0/	0	31/	1	3/	1	3/	0	0/	0	31/	7	0/	0	81/	9
OHIO	196/	14	173/	2	150/	32	193/	52	172/	64	67/	14	273/	104	3/	1	1227/	284
OKLAHOMA	45/	1	58/	0	76/	17	61/	9	31/	10	19/	1	121/	43	0/	0	411/	81
OREGON	59/	4	16/	0	91/	6	87/	16	52/	20	10/	0	136/	26	0/	0	451/	72
PENNSYLVANIA	283/	34	206/	2	163/	45	228/	64	181/	88	67/	15	339/	99	4/	0	1471/	347
RHODE ISLAND	65/	5	30/	0	12/	2	25/	7	27/	18	0/	0	0/	0	0/	0	159/	32
SOUTH CAROLINA	30/	1	17/	0	23/	6	12/	1	17/	4	3/	0	12/	9	0/	0	114/	21
SOUTH DAKOTA	2/	0	5/	0	12/	0	6/	5	0/	0	0/	0	17/	2	0/	0	42/	7
TENNESSEE	53/	5	32/	1	78/	14	88/	16	65/	17	4/	1	104/	26	0/	0	424/	80
TEXAS	210/	18	219/	0	160/	28	148/	31	125/	51	75/	11	242/	102	0/	0	1179/	241
UTAH	46/	0	40/	1	49/	5	69/	10	25/	11	9/	0	156/	20	0/	0	394/	47
VERMONT	4/	0	3/	0	9/	3	5/	0	4/	1	0/	0	0/	0	0/	0	25/	4
VIRGINIA	57/	5	54/	1	47/	11	30/	7	40/	8	11/	2	51/	20	0/	0	290/	54
WASHINGTON	101/	8	55/	0	122/	19	97/	17	71/	22	31/	5	39/	18	6/	1	522/	90
WEST VIRGINIA	15/	0	11/	0	29/	0	21/	3	8/	1	0/	0	33/	4	0/	0	117/	13
WISCONSIN	121/	3	78/		130/	25	120/	14	145/	65	28/	7	116/	33	2/	0	740/	148
WYOMING	17/	2	2/		15/	0	4/	0	1/	0	0/	0	25/	2	0/	0	64/	4
PUERTO RICO	3/	0	0/	0	1/	1	0/	0	0/	1	0/	0	0/	0	0/	0	4/	2

Refer to explanatory note on page 7.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

NSF Form 558 1972
OMB No. 99-R0054
Approval Expires June 30, 1974

SURVEY OF EARNED DOCTORATES

This form is to be returned to the GRADUATE DEAN, for forwarding to .... Manpower Studies Branch, Office of Scientific Personnel, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418

Please print or type.

A. Name in full: (Last Name) (First Name) (Middle Name) (7-28)

B. U.S. Social Security Number: (30-38) CR ( ) Cross Reference: Maiden name or former name legally changed
___ ___ ___ - ___ ___ - ___ ___ ___ ___

C. Permanent address through which you could always be reached: (Care of, if applicable)
(Number) (Street) (City)
(State) (Zip Code) (Or Country if not U.S.)

D. Date of birth: (39-43) (Month) (Day) (Year) Place of birth: (44-45) (State) (Or Country if not U.S.)

E. Sex: 1 ☐ Male 2 ☐ Female (46)

F. Marital status: 1 ☐ Married 2 ☐ Not married (including widowed, divorced) (47)

G. Citizenship: 0 ☐ U.S. native 1 ☐ U.S. naturalized 2 ☐ Non-U.S., Immigrant (Permanent Resident) 3 ☐ Non-U.S., Non-Immigrant (Temporary Resident) (48)
If Non-U.S., indicate country of present citizenship (49-50)

H. Racial or ethnic group: (Check all that apply.) 0 ☐ White/Caucasian 1 ☐ Black/Negro/Afro-American 2 ☐ American Indian 3 ☐ Spanish-American/Mexican-American/Chicano 4 ☐ Puerto Rican-American 5 ☐ Oriental 6 ☐ Other, specify (51-53)

EDUCATION

I. High school last attended: (School Name) (City) (State) (54-55)
Year of graduation from high school: (56-57)

J. List in the table below all collegiate and graduate institutions you have attended including 2-year colleges. List chronologically, and include your doctoral institution as the last entry.

Institution Name	Location	Years Attended From	Years Attended To	Major Field Use Specialties List Name	Major Field Use Specialties List Number	Minor Field Number	Degree (if any) Title of Degree	Degree (if any) Granted Mo.	Degree (if any) Granted Yr.

K. Enter below the title of your doctoral dissertation and the most appropriate classification number and field. If a project report or a musical or literary composition (not a dissertation) is a degree requirement, please check box. ☐ 48
Title ..... Classify using Specialties List
Number Name of field
(62-64)

L. Name the department (or interdisciplinary committee, center, institute, etc.) and school or college of the university which supervised your doctoral program:
(Department) (School) (65-80)

M. Name of your dissertation adviser: (please print) (8-20)
(Last Name) (First Name) (Middle Initial)

continued on next page

Please Do Not Write in This Space

1 6
7-28 NA 30-38 SS d( ) 29
39 40 41 42 43
44 45
46 47
48 49 50
51 52 53
HS 54 55 56 57
UG 58 59 60
61 62
B 63 64 65 66 67 68
69 70 71
72 73 74
75 76 77 n( ) 77
2 6 GR
7 8 9 10 11 12
13 14
M 15 16 17 18 19 20
21 22 23
24 25 26
27 28 29
30 31 32
D 33 34 35 36 37 38
39 40 41
42 43 44
45 46 47 48 49
TO 50 51 CE-BA
52 53 BA-GE
54 55 GE-MA
56 57 MA-PHD
58 59 GE-PHD
60 61 TI
DI 62 63 64
65-80 TA
3 6 – 7
8-20 TA

SURVEY OF EARNED DOCTORATES, Cont.

N. In the space in front of each source of support, indicate the approximate number of semesters you were supported by each of the listed sources during graduate school.

21 ___ NSF Fellowship
22 ___ NSF Traineeship
23 ___ NIH Fellowship
24 ___ NIH Traineeship
25 ___ NDEA Fellowship
26 ___ Other HEW
27 ___ AEC Fellowship
28 ___ NASA Traineeship
29 ___ GI Bill
30 ___ Other Federal support (specify) .....
31 ___ Woodrow Wilson Fellowship
32 ___ Other U.S. national fellowship (specify) .....
33 ___ University fellowship
34 ___ Teaching Assistantship
35 ___ Research Assistantship
36 ___ Educational fund of industrial or business firm
37 ___ Other institutional funds (specify) .....
38 ___ Own earnings
39 ___ Spouse's earnings
40 ___ Family contributions
41 ___ Loans
42 ___ Other (specify) .....

O. Please check the space which most fully describes your status during the year immediately preceding the doctorate.

0 ☐ Held fellowship
1 ☐ Held assistantship
2 ☐ Held own research grant
3 ☐ Not employed
4 ☐ Part-time employed

Full-time Employed in: (Other than 0, 1, 2)

5 ☐ College or university, teaching
6 ☐ College or university, non-teaching
7 ☐ Elem. or sec. school, teaching
8 ☐ Elem. or sec. school, non-teaching
9 ☐ Industry or business
(11) ☐ Other (specify) .....
(12) ☐ Any other (specify) ..... (43)

P. How many years (full-time equivalent basis) of professional work experience did you have prior to the doctorate?
(include assistantships as professional experience) ..... (44-45)

Q. U.S. veteran status:
0 ☐ Veteran, or in service; dates of active duty from ..... (year) to ..... (year)
1 ☐ Non-veteran
2 ☐ Not applicable (46-50)

POSTGRADUATION PLANS

R. How well defined are your postgraduation plans?
0 ☐ Have signed contract or made definite commitment
1 ☐ Am negotiating with a specific organization, or more than one
2 ☐ Am seeking appointment but have no specific prospects
3 ☐ Other (specify) ..... (51)

S. What are your immediate postgraduation plans?
0 ☐ Postdoctoral fellowship?
1 ☐ Postdoctoral research associateship?
2 ☐ Traineeship?
3 ☐ Other study (specify) .....
If you check 0, 1, 2, or 3, please answer "T" and omit "U"
4 ☐ Employment? (other than 0, 1, 2, 3)
5 ☐ Military service?
6 ☐ Other (specify) ..... (52)
If you checked 4, 5, or 6, please answer "U" and omit "T"

T. If you plan to be on a postdoctoral fellowship, associateship, or traineeship —

What is the purpose?
0 ☐ To add experience in your present field (53)
1 ☐ To change to a field different from that of the doctorate (Please enter number of new field from Specialties List .....) (54-56)

What is the primary source of support?
0 ☐ U.S. Government
1 ☐ College or university
2 ☐ Private foundation
3 ☐ Nonprofit, other than private foundation
4 ☐ Other (specify) ..... (57)

U. If you plan to be employed, enter military service, or other —

What will be the type of employer?
0 ☐ 4-year college or university
1 ☐ Jr. or community college
2 ☐ Elem. or sec. school
3 ☐ Foreign government
4 ☐ U.S. Government
5 ☐ State or local government
6 ☐ Nonprofit organization
7 ☐ Industry or business
8 ☐ Self-employed
9 ☐ Other (specify) ..... (58)

Indicate primary work activity with "1" in appropriate box; secondary work activity (if any) with "2" in appropriate box.
0 ☐ Research and development
1 ☐ Teaching
2 ☐ Administration
3 ☐ Professional services to individuals
5 ☐ Other (specify) ..... (59-60)

In what field will you be working?
Please enter number from Specialties List ..... (61-63)

V. What is the name and address of the organization with which you will be associated?

(Name of Organization) .....
(Street) ..... (City, State) ..... (Or Country if not U.S.) (64-69)

BACKGROUND INFORMATION

W. Please indicate, by circling the highest grade attained, the education of

		Elementary school								High school				College				Graduate			Postdoctoral	
your father:	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD	PhD		Postdoctoral	(70)
your mother	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD	PhD		Postdoctoral	(71)
	0	1			2			3		4			5	6			7	8		9	(11)	

Signature ..... Date completed ..... (72-73)

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 T 53 54 55 56 57 U 58 59 60 61 62 63 V 64 65 66 67 68 69 W 70 71 72 73

SPECIALTIES LIST

MATHEMATICS

000 — Algebra
010 — Analysis & Functional Analysis
020 — Geometry
030 — Logic
040 — Number Theory
050 — Probability, Math. Statistics (see also 544, 670, 725, 727, 920)
060 — Topology
080 — Computing Theory & Practice
082 — Operations Research (see also 478)
085 — Applied Mathematics
098 — Mathematics, General
099 — Mathematics, Other*

ASTRONOMY

101 — Astronomy
102 — Astrophysics

PHYSICS

110 — Atomic & Molecular Physics
120 — Electromagnetism
130 — Mechanics
132 — Acoustics
134 — Fluids
135 — Plasma Physics
136 — Optics
138 — Thermal Physics
140 — Elementary Particles
150 — Nuclear Structure
160 — Solid State
198 — Physics, General
199 — Physics, Other*

CHEMISTRY

200 — Analytical
210 — Inorganic
220 — Organic
230 — Nuclear
240 — Physical
250 — Theoretical
260 — Agricultural & Food
270 — Pharmaceutical
275 — Polymer Chemistry
298 — Chemistry, General
299 — Chemistry, Other*

EARTH SCIENCES

301 — Mineralogy, Petrology
305 — Geochemistry
310 — Stratigraphy, Sedimentation
320 — Paleontology
330 — Structural Geology
340 — Geophysics (Solid Earth & Atmospheric)
350 — Geomorph., Glacial Geology
360 — Hydrology
370 — Oceanography
380 — Meteorology
391 — Applied Geol., Geol. Engr., Econ. Geol.
395 — Fuel Tech., Petrol. Engr. (see also 479)
398 — Earth Sciences, General
399 — Earth Sciences, Other*

ENGINEERING

400 — Aeronautical & Astronautical
410 — Agricultural
415 — Biomedical Engineering
420 — Civil
430 — Chemical
435 — Ceramic
440 — Electrical
445 — Electronics
450 — Industrial
455 — Nuclear Engineering
460 — Engineering Mechanics
465 — Engineering Physics
470 — Mechanical
475 — Metallurgy & Phys. Met. Engr.
478 — Operations Research (see also 082)
479 — Fuel Tech., Petrol. Engr. (see also 395)
480 — Sanitary
486 — Mining
497 — Materials Science Engr.
498 — Engineering, General
499 — Engineering, Other*

ENVIRONMENTAL SCIENCES

589 — Environmental Sciences*

AGRICULTURAL SCIENCES

500 — Agronomy
501 — Agricultural Economics
502 — Animal Husbandry
503 — Food Science & Technology
504 — Fish & Wildlife
505 — Forestry
506 — Horticulture
507 — Soils & Soil Science
510 — Animal Sciences
511 — Phytopathology
518 — Agriculture, General
519 — Agriculture, Other*

MEDICAL SCIENCES

520 — Medicine & Surgery
522 — Public Health
523 — Veterinary Medicine
524 — Hospital Administration
527 — Parasitology
534 — Pathology
536 — Pharmacology
537 — Pharmacy
538 — Medical Sciences, General
539 — Medical Sciences, Other*

BIOLOGICAL SCIENCES

540 — Biochemistry
542 — Biophysics
544 — Biometrics, Biostatistics (see also 050, 670, 725, 727, 920)
545 — Anatomy
546 — Cytology
547 — Embryology
548 — Immunology
550 — Botany
560 — Ecology
562 — Hydrobiology
564 — Microbiology & Bacteriology
566 — Physiology, Animal
567 — Physiology, Plant
569 — Zoology
570 — Genetics
571 — Entomology
572 — Molecular Biology
578 — Biological Sciences, General
579 — Biological Sciences, Other*

PSYCHOLOGY

600 — Clinical
610 — Counseling & Guidance
620 — Developmental & Gerontological
630 — Educational
635 — School Psychology
641 — Experimental
642 — Comparative
643 — Physiological
650 — Industrial & Personnel
660 — Personality
670 — Psychometrics (see also 050, 544, 725, 727, 920)
680 — Social
698 — Psychology, General
699 — Psychology, Other*

SOCIAL SCIENCES

700 — Anthropology
708 — Communications*
710 — Sociology
720 — Economics (see also 501)
725 — Econometrics (see also 050, 544, 670, 727, 920)
727 — Statistics (see also 050, 544, 670, 725, 920)
740 — Geography
745 — Area Studies*
750 — Political Science, Public Admin.
755 — International Relations
770 — Urban & Reg. Planning
798 — Social Sciences, General
799 — Social Sciences, Other*

ARTS & HUMANITIES

801 — Art, Applied
802 — Art, History & Criticism
804 — History, American
805 — History, European
806 — History, Other*
807 — History & Philosophy of Science
830 — Music
831 — Speech as a Dramatic Art (see also 885)
832 — Archeology
833 — Religion (see also 881)
834 — Philosophy
835 — Linguistics
878 — Arts & Humanities, General
879 — Arts & Humanities, Other*

LANGUAGES & LITERATURE

811 — American
812 — English
821 — German
822 — Russian
823 — French
824 — Spanish & Portuguese
826 — Italian
827 — Classical*
829 — Other Languages*

EDUCATION

900 — Foundations: Social, Philosoph.
910 — Educational Psychology
908 — Elementary Educ., General
909 — Secondary Educ., General
918 — Higher Education
919 — Adult Educ. & Extension Educ.
920 — Educ. Meas. & Stat.
929 — Curriculum & Instruction
930 — Educ. Admin. & Superv.
940 — Guid., Couns., & Student Pers.
950 — Special Education (Speech, Gifted, Handicapped, etc.)
960 — Audio-Visual Media

TEACHING FIELDS

970 — Agriculture
972 — Art
974 — Business
976 — English
978 — Foreign Languages
980 — Home Economics
982 — Industrial Arts
984 — Mathematics
986 — Music
988 — Phys. Ed., Health, & Recreation
990 — Science Educ.
992 — Social Science Educ.
994 — Vocational Educ.
996 — Other Teaching Fields*

998 — Education, General
999 — Education, Other*

OTHER PROFESSIONAL FIELDS

881 — Theology (see also 833)
882 — Business Administration
883 — Home Economics
884 — Journalism
885 — Speech & Hearing Sciences
886 — Law, Jurisprudence
887 — Social Work
891 — Library & Archival Science
897 — Professional Field, Other*

899 — OTHER FIELDS*

* Identify the specific field in the space provided on the questionnaire.

CODE NUMBERS FOR FIELDS DISPLAYED IN TABLE 2

TOTAL ALL FIELDS

Physics & Astronomy (101-199)
Chemistry (200-299)
Earth Sciences (301-399)

Physical Sciences Subtotal (101-399)
Mathematics (000-099)
Engineering (400-499)

EMP Total (000-499)

Basic Medical Sciences (540-542, 545-548, 564-566, 572)
Other Biosciences (544, 550-562, 567-571, 578-579)

Biosciences Subtotal (540-579)
Medical Sciences (520-539)
Agricultural Sciences (500-519)
Environmental Sciences (589)

Life Sciences (500-589)

Psychology (600-699)
Economics and Econometrics (720, 725)
Anthropology & Sociology (700, 710)
Political Science, Public Administration, International Relations (750, 755)
Other Social Sciences (708, 725-745, 770-799)

Social Sciences Total (600-799)

Total Sciences (000-799)

History (804-807)
English & American Language & Literature (811, 812)
Foreign Languages & Literature (821-829)
Other Arts & Humanities (801-802, 830-879)

Arts & Humanities Total (801-879)

Professional Fields (881-897)

Education (900-999)

Other or unspecified (899)

Total Non-Sciences (801-999)